TP-POE-2456D

DATA SHEET

Passive POE to 802.3af/at Converter

Features

- **Converts 24VDC Passive POE to 56VDC 802.3af/at 35W POE Output**
- **Run 802.3af/at equipment from 24VDC Passive POE switches like Tycon TP-SW5G-NC / TP-SW8-NC or Ubiquiti TOUGHSwitch™**
- **POE output up to 35W**
- **Remotely Power Equipment thru CAT5/6 Cable up to 100m**
- **Short Circuit, Over Current and Over Voltage Protection**

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Applications

- **Wireless Access Points and Client Devices**
- **IP Phone and Security Camera Systems**

Description

The **TP-POE-2456D** is a unique Power Over Ethernet adapter which converts a 24VDC passive POE input to an 802.3af/at 56VDC POE output. The only connections required are CAT5/6 cables. The IEEE 802.3af/at compliant POE output is capable of up to 35W power output. The POE input is 22V to 36VDC passive POE so the TP-POE-2456D is perfect for running IP POE Cameras or other POE devices from passive POE switches like the Tycon TP-SW5G-NC / TP-SW8-NC or Ubiquiti TOUGHSwitch™.

The units supply power to the remote device on the unused Ethernet pins 4,5(V+) and 7,8(V-). The Ethernet spec supports distances up to 100m (328 feet).
They have various protections for surge, short circuit, overload and overvoltage.

Device Pinouts

RJ-45 Input (Data Only)			RJ-45 Output (Data & Power)	
Pin	***Symbol***	***Description***	***Symbol***	***Description***
1	RX+	Data Receive(+)	RX+	Data Receive(+)
2	RX-	Data Receive(-)	RX-	Data Receive(-)
3	TX+	Data Transmit(+)	TX+	Data Transmit(+)
4	NC	No Connection	+Vdc	DC power(+)
5	NC	No Connection	+Vdc	DC power(+)
6	TX-	Data Transmit(-)	TX-	Data Transmit(-)
7	NC	No Connection	-Vdc	DC power(-)
8	NC	No Connection	-Vdc	DC power(-)

Specifications

	TP-POE-2456D
Passive POE Input Voltage	22VDC to 36VDC
Output Overvoltage Protection	58V
POE Output	56VDC 802.3af and 802.3at compatible
Output Current	0.625A @ 56V
Output Power	35W Max
Load Regulation	5%
Ripple / Noise	2%
Operating Temperature	-30 to +60°C (-22 to +140°F)
Operating Humidity (RH)	5% - 90%
Storage Temperature	-40 to +80°C (-40 to +176°F)
Dimensions (LxWxH)	85 x 76 x 36mm (3.4 x 3 x 1.4”)
Weight	150g (5.3oz)

Notes:

- All shipments F.O.B. Bluffdale, UT 84065
- Tycon Power Systems Power Sources carry a 1 year warranty

System Ordering:

TP-POE-2456D 24VDC Passive POE to 802.3af/at POE 35W Converter

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